

CLAIMS

What is claimed is:

1. A method of manufacture of an optical device comprising:
 - a process of formation of a lens within a bank which demarcates predetermined region upon a substrate, using a lens material in the liquid state; and
 - a process of distribution of functional material within said bank.
2. A method of manufacture of an optical device according to Claim 1, wherein said process of formation of said lens using said lens material in the liquid state comprises a process of distribution of said lens material in the liquid state within said bank, and a process of drying said lens material.
3. A method of manufacture of an optical device according to Claim 1, further comprising, before said process of distribution of said lens material, a process of processing the surface of said bank so as to increase its lyophobicity or lyophilicity against said lens material.
4. A method of manufacture of an optical device according to Claim 3, wherein a convex lens is formed in said demarcated region by processing of said surface of said bank to increase its lyophobicity.

5. A method of manufacture of an optical device according to Claim 3, wherein a concave lens is formed in said demarcated region by processing of said surface of said bank to increase its lyophilicity.
6. A method of manufacture of an optical device according to Claim 1, wherein a liquid drop discharge method in which liquid material is discharged in the form of liquid drops is utilized for distribution of at least one of said functional material and said lens material.
7. A method of manufacture of an optical device according to Claim 1, wherein a liquid drop discharge method in which liquid material is discharged in the form of liquid drops is utilized for distribution of material for formation of said bank which demarcates said predetermined region.
8. A method of manufacture of an optical device according to Claim 1, wherein the plan view form of the region which is demarcated by said bank is polygonal, elliptical, or roughly circular.
9. A method of manufacture of an optical device according to Claim 1, wherein said functional material is a color material which is used for color filtration.
10. A method of manufacture of an optical device according to Claim 1, wherein said functional material is a reaction material for use in a biochip.

11. An optical device comprising:

a bank which demarcates a region upon a substrate in which functional material is distributed; and

a lens which is disposed in said region which has been demarcated by said bank, and which is layered against said functional material.

12. A display device which comprises a color filter manufactured by a method of manufacture of an optical device according to Claim 9.

13. An electronic device which comprises a display device according to Claim 12.

14. A detection device which employs a detection plate which has been manufactured by the method of manufacture of an optical device described in Claim 10.